



Print Forum

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First-ever **3D printed Durga idol to debut this puja**



Kolkata: In a unique concept marrying art and science, Kolkata will, in this Puja, host a digitally sculpted Goddess Durga and her family, courtesy the application of 3D printing technology on paper.

Source: India TV News Desk

From President's desk...



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Text to come....

Warm Regards,

Yours Truly,

Dr. B, Kumar

3D printed Durga idol

AS 3D printing diversifies across the world in fields of medical science, films, art, aerospace, architecture and design and even in organ regeneration, a Durga puja committee in south Kolkata has paved the way for introduction of hi-tech features in sculpting idols instead of the traditional, manually-crafted process using clay.

In the simplest term, 3D printing involves the creation of a three-dimensional solid object from digital designs or models, in this case, created by sculpting apps. This gives an impression of depth and makes it look as if the figure is jumping out at you.

The Jodhpur Park puja committee's 3D printed idol stands tall at 8.5 inches and 14 inches wide.

"We have digitally created a Durga idol, designed by sculpting apps and using 3D printer, which uses standard office stationery (A4 size paper) to make the models from the design.

So you may say that this is a computer-aided design (CAD)-computer aided manufacturing (CAM) process," Ujjal Mitra, director of Printz Worldwide, the brainchild of the project, told IANS .

It is pegged to be the world's such idol, "as far as making of a Durga idol is concerned", he said.

The relevance of this innovation is that digital models can be replicated multiple times using a variety of materials and 3D printers anywhere in the world, and the process will help the craftsmen too, said Mitra.

"So we are trying to open up an opportunity for the traditional craftsmen to learn this skill and gradually switch to digital work.... maybe next time they would not need to physically transport a Durga idol for all out-station orders, but send the 'design' to a 3D printer nearest to the client and have it printed out there," Mitra said about the cost-effective process.

These virtual designs are translated to solid life-size objects via 3D printers that compose the entire figure layer by layer (additive manufacturing).

Prior to feeding the virtual design file into the 3D printer, a separate programme slices the design or model into layers that are in effect two-dimensional (2D) or sans depth.

The 3D printer reads the 2D image slices and blends in all the layers seamlessly to fabricate an advanced form of art.

Mitra pointed out the method not only permits greater flexibility in terms of creativity but also allows designers to "undo" an anomaly and retrace a few steps to start all over again, something which can't be done with normal sculpting.

While the makers are yet to zero-in on a colour scheme, white is the choice as of now. The cost of the idol, including paper, glue, etc., hovers at around Rs.60,000.

—Article courtesy: <http://www.....>). ■

Article_head

Lectem et officias dundita ssimpore, quost preium nis plia evelecte digenda rem nossunt.

Text to come... ■

Come together and share your knowledge with your fellow technologists in our regular technical meetings.

Personalities - Dr. Nandakumar, Principal Arasan Ganesan Polytechnic College, Sivakasi.



Dr. M. Nandakumar completed his Diploma in Printing Technology from I.P.T., Tharamani, Chennai and continued his Bachelor Degree in Printing Engineering from PVG's College of Engineering & Technology, Pune under Poona University and started his career as Assistant Production Engineer in Macmillan India Ltd. Bangalore, then he shifted his profession as teacher and started his career as Lecturer in Printing Technology at B.M.S. College of Engineering, Bangalore. He pursued his Masters degree in Industrial Safety Engineering at MEPCO Schlenk Engineering College, Sivakasi and completed his Ph.D. (Doctorate in Printing Field) from Anna University, Chennai. His PhD research title is "Green Printing-Environmental Management" in Offset Printing. He did his research under the guidance of Dr.N.Bose, Senior Professor, Dept of Mechanical Engg, Mepco Schlenk Engineering College, Sivakasi. He has prepared ECO-Friendly Palm Oil Methyl Ester (POME) based vegetable oil ink as a substitute for petroleum based oils and produced offset printing ink. He has conducted many print experiments with POME ink at Printing Department as well as in Bell Printing Press, Sivakasi to find the co-relation between Ink Density, (ΔE) and Colour Deviation (ΔE_{ab}) and successfully proved the values by using Origin Pro Software.

Printing branch is a specialized Course, in Tamilnadu. There are 5 polytechnic colleges offering 3 year printing diploma programmes and 2 universities are offering UG Programmes in Printing. In India around 33 polytechnic colleges and 13 Engineering colleges are offering B.E. printing programmes. As a whole in India Dr. M. Nandakumar is the 8th person to receive PhD degree in Printing field and he is the first person

in India serving in Polytechnic College to acquire PhD in printing. In addition to that, he has published 3 papers in International Journals (Anna University Annexure--I Journals) and 5 papers in National and International Conferences. He has Published many articles in various printing technical magazines. Having experience of more than 19 years with specialization in prepress, digital and offset printing, he had authored many books on topics including: Digital and Non-Impact Printing, Designing Software, Designing and Planning for Print Production, Desk Top Publishing, etc, for the students of diploma in printing technology.

He joined Arasan Ganesan Polytechnic College, Sivakasi in 1998 as Senior Lecturer in Department of Printing Technology. He became the Head of the Department in 2007. Then he took charge as Vice Principal of the institution from 2008. He took charge as the Principal from 1st November 2012 and is continuing to serve till date. He has received the Prestigious award of "ISTE Arutchelvar Dr.N.Mahalimgam

Award for Best Polytechnic Teacher for Tamil Nadu State for the year 2013".

He had been the state facilitator for conducting Strategic Planning Workshop for Canada India Institutional Cooperation Project (CIICP), Tamilnadu, and Member for Annual Diagnosis and Monitoring Mechanism of CIICP Polytechnic Colleges and acted as Chairperson of the ad hoc Board of studies in printing technology in Manonmaniam Sundaranar University, Directorate of Community Colleges, Tirunelveli. He is the convener for revision of Diploma in Printing syllabus for Tamilnadu State and he committed himself to give course material for the revised "L" Scheme syllabus and the syllabus content and the course material is published in the website 'agpcptech.weebly.com' for the benefit of teachers and students of Printing Technology studying under DOTE, Tamilnadu.

The Printing Technologists Forum

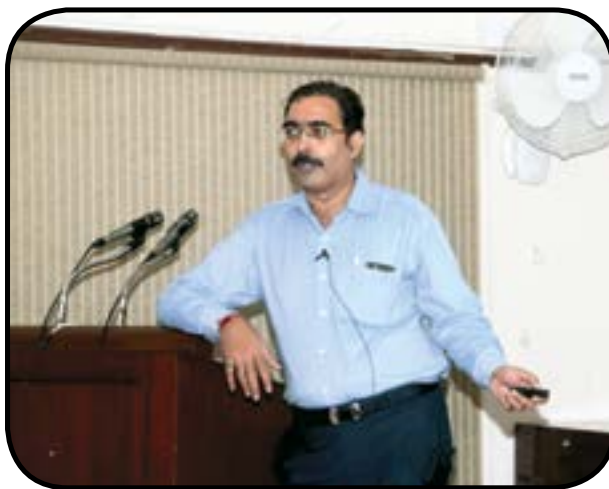
*wishes him all success
in the years to come.*



Technical speech on Opportunities in Flexography

— A.Sarukrishna

A technical speech on
"Opportunities in Flexography"
delivered by **Mr. Pravin Mahajan**, AGM, Heidelberg,
on 7th September, 2018,
at "Hall of Guines 68", College of Engineering, Guindy.



Flexography is one of the most extensively used printing methods now since we could print using wide varieties of inks and also on almost every substrate. So to shed some light on the various opportunities available in Flexography, our Printing Technologists Forum, organized a technical speech on "Opportunities in Flexography" which was delivered by Mr. Pravin Mahajan AGM, Heidelberg on 7th September 2018 at "Hall of Guines 68", College of Engineering, Guindy. The speech kicked off with a warm welcome address by the President of the Forum Dr. B. Kumar who also invited the office bearers and the guests to come on the dais. Mr. Pravin Mahajan was introduced by Mr. V. Ganesh Kumar (Project Manager-Heidelberg). Mr. Pravin Mahajan began his speech explaining about the various applications of flexography and then about the evolution of Gallus flexography machines since 1985. He then explained about the possibilities of an 8 colour flexo unit machine where the machine is not only limited to flexographic printing but also other methods like gravure and also allows value additions such as lamination, foiling and so on. There was also lot of options in choosing the processing methods like sheeting, slitting, die cutting, embossing and so on. He also stressed that flexography is not only limited to label printing but has a wide range of applications like folding carton, aluminium foil printing and printing on food containers and lids. He then explained elaborately about the role of flexography in folding carton businesses. He came back to the sector of self-adhesive labels which are used almost everywhere in our daily lives. Flexography also facilitates some special applications such as Multi-layer label and Booklet label printing. He then showed the global label demand stats which said that 37% of the world's total label demand is in India which is great news for anybody trying to start a label printing start-up. The label demand growth rate has been steadily

increasing over the past years. His global tube market trend stats showed that most of the products are packaged in aluminium tube. The next preferred packaging are laminates and extruded plastic tubes. These stats showed that there is a wide demand for flexography and availability of opportunities. He concluded his speech describing about the various tube decoration possibilities such as self-adhesive labelling, in-mould moulding. Then there was brief question session where he answered the various questions the audience threw at him. The meeting concluded with the vote of thanks by Mr. Bakshi the former President who also presented the memento to the speaker followed by dinner.

This technical speech about the various opportunities in flexography really did enlighten us with the present scenario in mind. Mr. Pravin Mahajan being an expert in Flexography did give food for thought for all of us on that day. I hope that many people would have been benefitted for his speech and may the Printing Technologists Forum organise more speeches like this for the improvement and the betterment for the printing society in the near future. ■



Print Forum

An official Bi-monthly Journal of The Printing Technologist Forum

A Member- Supported Non Profit Society

The Printing Technologist Forum, the only organisation of its kind in India, catering to the interests of Printing Technologists, brings out a bi-monthly journal, PRINT FORUM.

The members of The Forum being qualified printing technologists (both managerial and technical cadre of all levels), technicians, teachers & students of printing institutes, and those who are engaged or running the printing and allied industries, you reach a wide spectrum of

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WE, the Members together form THE FORUM

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Membership Progress

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